

# new Possi Build ities

# Mission Control,



There's no place like space, and Space Port takes you there. Once you complete your training, you'll be ready to blast off. But being an astronaut isn't just squeezing food out of a tube and floating around in zero gravity. There are rockets to build, satellites to repair, and space labs to launch. And watch out for meteors! Those dangerous flying objects make every flight an adventure!

To find out more about real astronaut training for and NASA space missions, visit NASA's website at: http://shuttle.nasa.gov

# Hallie Comet

As the navigator on all space missions, it's Hallie's job to make sure that no one gets lost in space. She is also an ace space mechanic and has fixed hundreds of damaged satellites while floating in space.



MEET THE ASTRONAUTS



# Buzz Bailey

Buzz is the top space jockey in Space Port. He has flown more shuttle missions than any other astronaut. His favorite place in space is the moon, and Buzz loves to zoom over moon dunes in his lunar rover.

#### **6454 Countdown Corner**

Three...two...one...blast off!

Lights flash and the engine roars! As the arms of the launch pad drop away, you rocket off into adventure. Take a walk in space, then...warn Mission Control that a meteor is heading toward Earth!

Hatch opens for easy astronaut entry.

Three real rocket sounds and light patterns.

Use the rocket for an unmanned mission to release a satellite into orbit

TRY A
NIGHT-TIME LAUNCH
FOR A REALLY COOL
LIGHT AND SOUND
SHOW!

Send rocket into space from launch pad.

# He have adventure!



#### 6453 Com Link Cruiser

With its rotating radar, this cool cruiser can detect incoming meteors. And when nobody's looking, you can pick up any sporting event in the world!











# TIPS AND TRICKS Build your own inventions with these cool ideas!

### PROGRAMMING GRABBER ARM



### Be a Master Coder!

"My Commands" are useful for the Grabber Arm. Its program (shown here) uses them often.



#### **Organize Your RCX Code**

"My Commands" replace a long stack of commands with a single block





#### OOL INVENTIONS GRABBER

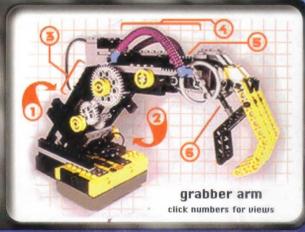
The Grabber Arm can reach and grab just like a human hand—and it looks like one too! This is no accident —this design is based on how a real hand works. Check it out below and on www.legomindstorms.com.











# www.legomindstorms.com

# FIRST™ LEGO® LEAGUE

#### Launching the FIRST LEGO LEAGUE

LEGO® bricks have been used to build all sorts of space ships, but a LEGO model has never actually been in space—until now. NASA's Discovery Mission STS-96 included a crew of seven humans and one specially-designed LEGO robotic

### **Inspiration and Recognition**

FIRST, which stands for "For Inspiration and Recognition of Science and Technology," also runs the FIRST Robotics Competition for high school students and FIRST Place, a science and technology facility in Manchester, New Hampshire.

The LEGO model was brought on-board by Astronaut Daniel T. Barry to help launch the FIRST LEGO League. The FIRST LEGO League is a friendly, high-tech sporting event in which teams

of kids use the LEGO" MINDSTORMS' Robotics Invention System to design, program, and test their own unique robotic inventions for tournament competition.

"When I saw teams of kids using technology and working together to develop solutions to some really tough challenges. I was impressed and inspired," said Barry, who served as a judge during a tournament last year at the Museum of Science and Industry, Chicago.

The FIRST LEGO League robot is a

#### Daniel T. Barry





Space Shuttle Discovery takes off on Mission STS-96 (left). The FIRST LEGO League robotic arm safely back from its mission (right).

model of the robotic arm located on-board the Discovery. The astronauts use the robotic arm to carry them during space walks and as a tool for grasping. The LEGO robot is identical in its design and can do similar things.

Anyone interested learning more about FIRST LEGO League should visit www.legomindstorms.com/fll



MINDSTORMS

# LEGO SOFTWARE NEWS

# top secret info - club members only

In the last issue, we took a look at all the tracks, characters and power-ups in LEGO Racers.

This month we'll examine the "Top Secret" driver and car building modes, where you can design and build your own custom LEGO driver and racing vehicle.

#### Check out these other cool features:

- Swap driver and car designs with friends by exchanging memory cards and controller paks. (Nintendo® 64 and PlayStation® versions only)
- Feel every bump and vibration on the road with force feedback.
   Force feedback support requires: Nintendo® 64 (Rumble Pak), PlayStation® game console (Dual Shock<sup>TM</sup> analog controller), or PC CD-ROM (DirectX-compatible force feedback)
- Race against a friend on the same computer or game console in two-player racing mode.





Snap together your own custom LEGO Racer champion on the "Build Driver" screen...



...then create a wacky driver's license, with a unique name and photo!



Using the "Build Car" screen you can use a ready-made car, or build one from scratch, brick by brick.



How you build your car will affect how it handles — take a spin on the test track to see how your new car drives.











# upcoming





Rock Raiders is based on the all-new LEGO®SYSTEM play theme. Your mission is to navigate your way through a dangerous underground world while mining precious energy crystals and LEGO ore. However, beware and avoid the looming Rock Monster!

Coming this Fall for PC CD-ROM and PlayStation®.



# reco Chestot

Have you tried out the secret night-vision mode?





#### Follow these steps:

- 1. Create a new LEGO World.
- Place a single 6-stud LEGO Brick in the center of your world.
- 3. Place a video camera from the action bricks menu on top of the brick.
- 4. Enter Play Mode, then click on the night-time option on the menu.
- 5. Enter the camera's viewpoint and wait for it to get dark.

Experiment with the video camera and your environment settings to see your LEGO Creator worlds in a new light.





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"I'VE DUSTED THE FASTEST RACERS IN THE KNOWN UNIVERSE..."



# "AND YOU'RE NEXT!"

**BUILD YOUR RACE CAR!** 

CHOOSE YOUR PLAY THEME!

FIND HIDDEN SHORT CUTS!

COOL COMPETITORS!









If you want to be a LEGO Racing Champion, you'd better **READ THIS FAST!** 

Load the game. Imagine a car, any car. Build it. Scrap it. Build it again, only better! Race in four separate worlds. Challenge your friends. Beat them. Master 12 wild race tracks. Defeat history's greatest champions like Johnny Thunder, Baron von Baron or the villainous Black Knight. Only then, you'll have the chance to race the ultimate LEGO champion. Who am I? I'm the Rocket Racer... and by the way, YOU READ TOO SLOW!



PC CD ROM



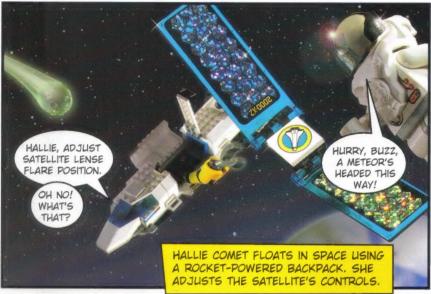


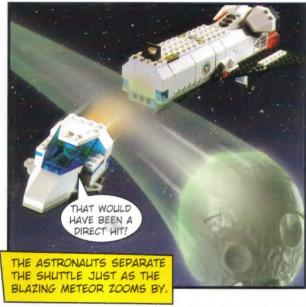
www.LEGO.com

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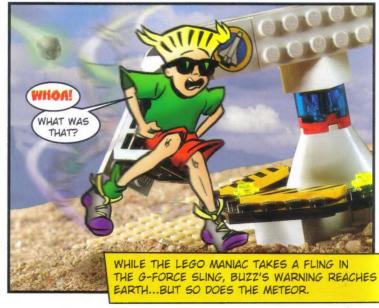




























# DESCRIPTION THE SECTION THE



An evil emperor invades the land of the ninja. He robs from the rich. He robs from the poor. He even robs from the Shogun.

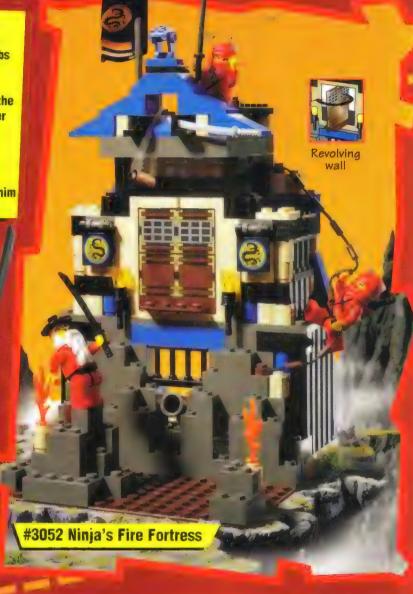
This evil emperor keeps the treasure hidden in a super stronghold. Dangerous traps, secret entrances, and a booming cannon protect the castle.

No one has tried to stop him -until now.

From a secret fire fortress, the mysterious Ninja Princess leads a brave band of red ninjas against the emperor. Trained by the wise Ninja Master, the red ninjas are the sneakiest ninjas around. The Ninja Princess plans to invade the emperor's castle and return the treasure to her people.



#3050 Shanghai Suprise

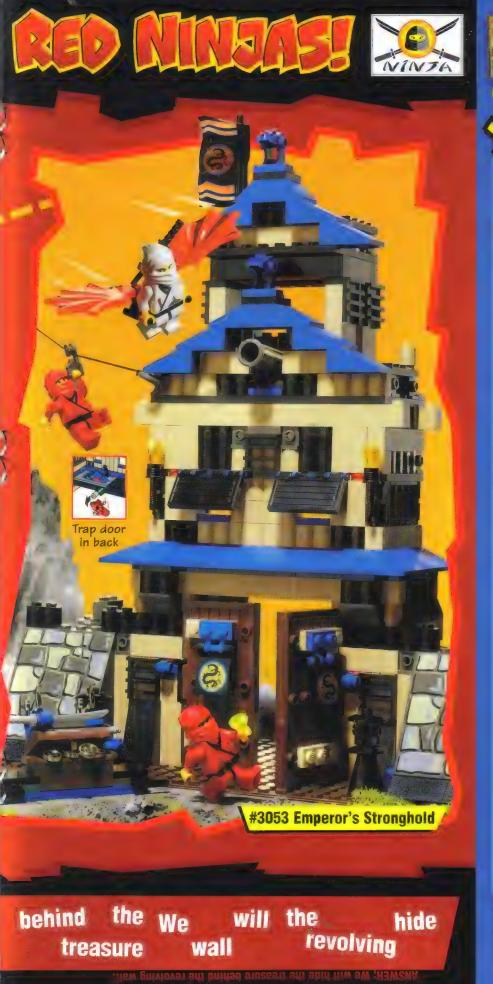


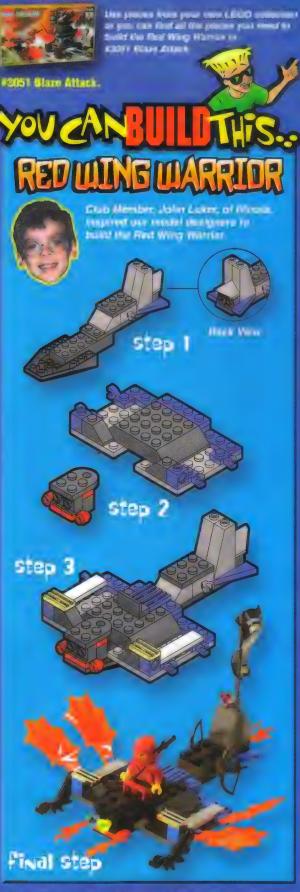
As the emperor sneaks a boatload of treasure into his castle, the even sneakier Ninja Princess glides above the castle and waves her sword. At the signal, red ninjas slide into the stronghold. The quest for the treasure begins. Who will keep the treasure? Only you can decide.



The mysterious Ninja Princess has left you a secret message about the Ninja's Flying Fortress. Rearrange the words to decode her message.

MIXED-UP SECRET MESSAGE





Your original moder could be featured in LEGO Mania Megazios. Club Members featured will receive a free LEGO set of their choice by the 4 1100 years.

LEGO Club "You Can Build This... P.O.Box 1308 Enfield, CT 06083-1308









Have you ever looked up at the moon and wondered what it would be like to go there?



Liftoff of the Apollo 11 Saturn V space vehicle at 9:32 July 18, 1969 soaring Astronauts Neil Armstrong, Michael Collins and Buzz Aldrin all the way to the moon.

But there was a spirit among the men and women of Apollo, that nothing is impossible if you work hard enough to achieve it. For almost a decade the Apollo team 400,000 people at NASA, aerospace companies, and

colleges — designed, built and tested the spacecraft and rockets for the lunar voyage.

The moment of truth came 30 years ago this strail. In July 20, 1969, as Hen Armstrong and Buzz Aldrin transferred into the lunar module Eagle. On the way down

Armstrong and Aldrin explored the moon's surface and experienced the delights of moonwalking. In lunar gravity, only one sixth as strong as Earth, it was almost like walking on a trampoline. Armstrong and Aldrin could not help but be awed by the beauty of the lunar landscape. With no atmosphere, the sky was not blue, as it is on Earth, but black, like space itself. Armstrong and Aldrin picked up rock and soil samples, planted the American flag, and deployed a pair of scientific experiments that would relay data back to Earth.

After Apollo 11, NASA made six more attempts to land on the moon. All but one the famous voyage of Apollo 13 — were successful, and each mission accomplished more than the one before it. And then, in December 1972, when Apollo 17 returned to Earth. Project Apollo came to an end

# One Giant Leap by Andrew Chaikin, author of "A Man on the Moon" Now available in a fully-illustrated three volume set from TimeLife®



Neil Armstrong, Commander, Michael Collins, Command Module Pilot and Buzz Aldrin, Luna: Medule Pilot

For thousands of years, people dreamed about that. Movie makers created film versions of a lunar voyage (lunar means "moon"). Then, in the summer of 1969, the dream came true, thanks to Project Apollo — the U.S. effort to put astronauts on the surface of the moon.

In 1961, President John Kennedy challenged the nation to achieve a piloted lunar landing before the end of the 1960s. In 1961, the U.S. had made only one piloted space flight. No American had yet orbited the Earth. To reach the moon in eight years time seemed impossible.

to the moon's surface. Armstrong and Aldrin battled computer alarms that threatened to stop the mission. With help from experts in mission control, they kept going. In the final minutes of the descent Armstrong had to take control in order to avoid a crater the size of a football field. Finally, with the fuel supply running low, Armstrong brought Eagle to rest on the ancient plains of the moon's Sea of Tranquillity. "Houston Tranquillity Base here," Armstrong announced. "The Eagle has landed. They had done it—they had actually landed on the moon!

Soon. Armstrong climbed down Eagle's ladder. He raised his left foot and placed it on the powdery ground — the first human foostep on another world. That's one small step for [a] man. Armstrong said. One giant leap for mankind. An estimated 600 million people witnessed the event as it happened thanks to live radio and television to the surface.

Lunar Rover

On the last three landings, the astronauts brought along a battery-powered car, the lunar Rover With II they traveled miles across the surface, even onto the sides of lunar mountains where they picked up rocks almost as out as the solar system itself.

Finder Courses Hilliam



# MEGI

At www.headbone.com

Here's your chance to find out what it's like to step on the moon, fly a space shuttle, or walk in space! Through two live chats, you can meet four superstars of space, and ask them about their adventures in space.

You'll find some cool "factoids" about the astronauts below. To find out more visit www.LEGO.com/space.

### JUST FOLLOW THESE 2 EASY STEPS:

1. Visit the Headbone Zone Sign Up HQ at http://www.headbone.com/reg/ and click on "Sign Me Up!"

2. Be sure you're registered to chat on the Headbone Zone by Wednesday, July 28th, so we can process your registration in time for the chat. If you're under the age of 13 you'll need your parent's permission

Friday, July 30th from 7:00-8:30pm (Eastern Time)
Chat with shuttle astronauts Kathy Sullivan and Charlie Walker.



# KATHY

First woman to walk in space

Flew on first Spacelab mission

Helped take Hubble Space Telescope to space

Studied Earth's atmosphere while on shuttle



# CHARLIE

Shuttle crew member has flown more than 8 million miles in space.

Trained other shuttle astronauts

-Worked at Mission Control

Helped out Space Station in space



Sunday, August 1st from 3:00-4:30pm (Eastern Time) Chat with two friends and astronauts who walked on the moon, Apollo 12 astronauts, Alan Bean and Pete Conrad.



## ALAN BEAN

Astronaut/artist has drawn 200 paintings of important moments in space

Fourth person to walk on the moon.

Commanded Skylab II mission: a 59-day, 24 million mile, world record setting flight.

> During lift-off, their spacecraft was struck by lightning! They made it to the moon, and performed the first precision lunar landing in November 1969.



## PETE CONRAD

Third person to walk on the moon

This space cowboy brought country western music to the moon.

First words after he stepped onto the moon: "Whoopee! It may be one small step for Neil (Armstrong) but it's one long step for me.

Won Congressional Space Medal of Honor for rescuing the Skylab space station in 1973





CO-SPONSORED







# ENTER THE ...



# KENNEDY SPACE CENTER™

# \*SWEEPSTAKES\*

Grand Prize:

A 4-day/3-night trip
for four to Florida to visit Kennedy
Space Center (KSC) Visitor Complex,
a tour into restricted access areas of
KSC and IMAX Space Film passes!
(ARV \$2,800)

#### 10 first prize winners will win:

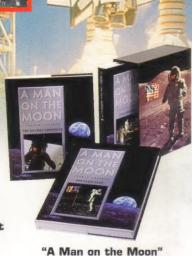


ARV of each first prize pack = \$142.



A NASA Space Flight Suit provided by thespacestore.com

:SpaceStore



by Andrew Chaikin.

A three book series about

the Apollo Space Program

provided by TimeLife Books

with over 500 photos.

I DON'T NEED TO BE A ROCKET SCIENTIST TO FILL

### HOW TO ENTER:

Complete Official Entry Form on the right. Mail entry in hand-addressed #10 envelope to:

> LEGO Kennedy Space Center Sweepstakes P.O. Box 4652 Blair, NE 68009-4652

Entries to be received by Sept.15, 1999

#### ABBREVIATED RULES. NO PURCHASE NECESSARY

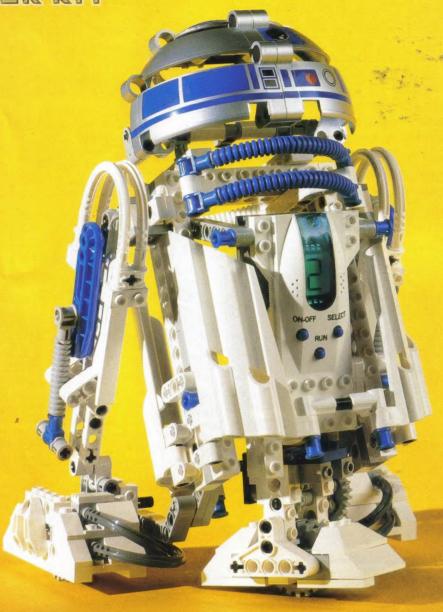
Limit 1 entry per envelope. No mechanically reproduced entries permitted. Not responsible for lost/late/misdirected/ mutilated/illegible entries or entries not rec'd in time for random drawing. Winners will be selected in a random drawing on/about 9/16/99 from among all correctly-answered eligible entries rec'd. Decisions of judges are final. Limit 1 prize per household. Odds of winning will depend upon number of eligible entries rec'd. Prizes consist of only those items specifically listed. Open to U.S. residents who, as of 7/18/99, are members of LEGO Club and are recipients of LEGO Club Magazine. Void where prohibited. No substitution/transfer of prize permitted. By participating, entrants agree to be bound by full Official Rules & judges' decisions. For full Official Rules, by which entrants are bound, send SASE to LEGO Kennedy Space Center Rules Requests, P.O. Box 5485, Blair, NE 68009-5485.

YOU DON'T NEED TO BE A ROCKET SCIENTIST TO FILL IN THE BLANKS. JUST LOOK FOR THE ANSWERS ON PAGES 18 AND 19 OF THIS MAGAZINE. GOOD LUCK!



A STATE OF THE STA	Sweepstakes Er	ntry Form	
1. Neil Armstrong f	irst stepped on the moon with his	(right or left?)	_ foot
2. The battery pow	ered car astronauts used on the m	oon	
Name			
Address			
City		Zip	
Daytime phone	# ( )		

# MINDSTORMS DROID DEVELOPER KIT









THEIR

MOVEMENTS ARE

FRIGHTENINGLY

LIFELIKE.



(PRAY WE DON'T MAKE A VADER VERSION.)





R2-D2 needs a new master. Build him and use the LEGO® Microcomputer with built-in light sensor and motor to bring him to life. And R2-D2 is just the beginning. The Droid Developer Kit lets you build endless combinations of droids. It's up to you to keep them from the clutches of the dark side. As for keeping them from the clutches of your friends, may the Force be with you. To find out more, visit www.legomindstorms.com



Build a LEGO model that could improve life on Earth or in a galaxy far, far away and You could win...

- A V.I.P. trip to Denmark to see behind-the-scenes development of LEGO Star Wars sets.
- A life-size LEGO Star Wars character model signed by George Lucas
- Plus other unique LEGO Star Wars prizes.
- All entrants will receive a LEGO Certificate of Achievement

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Watch Fox Kids
August 31st - Sept. 11th
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Star Wars fun!

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- Check out the super-cool new Star Wars: Episode I section at www.lego.com/episode1
- Check out details on the LEGO Star Wars Galactic Challenge at www.lego.com/galactic
- Get Building Tips to make a cool new model using the #5956 Air Zeppelin at www.lego.com/topsecret
- Visit the Space Port section to learn more about real Apollo and Space Shuttle astronauts at www.LEGO.com/space

Join the LEGO Web Club! Web Club members, you can be the first to:

- See a sneak preview of the all new Rock Raiders at www.lego.com/rockraiders
- Enter the new LEGO.com contest for Web Club members only—great prizes to win! www.LEGO.com/contest
- Enter your cool LEGO creation for the chance to see it in the new Web Club Galleries at www.lego.com/gallery
- Play the LEGO Brick Game against other kids around the world at www.lego.com/brickgame